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MONTHLY REPORT

JUNE 1970

OFFICE OF THE CHIEF

1. Management effort was directed to the budget exercise for FY 1971 and 1972. A study of the TSG T/O structure in view of a possible change in Group organization was conducted. Guidance and efforts were expended on the status of new equipment relating to the advent of the

[redacted] system. [redacted] visited [redacted]

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2. Management direction was given to a planning session at

[redacted] program. U.S. Navy Bureau of Ships conferred with [redacted] on the [redacted] Digital Image Restoration program. [redacted] representatives contacted the Office of the Chief to report on the status of Laser Scanning. Other visits to [redacted] were made by [redacted]

[redacted] Also, [redacted] attended a DDS&T briefing by [redacted]

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DECLASS REVIEW by NIMA/DOD

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NPIC/TSG/PPS-061-70  
14 July 1970

MEMORANDUM FOR: Chief, Technical Services Group, NPIC

SUBJECT: Projects & Programs Staff Monthly Report - June 1970

A. During June, the Projects & Programs Staff conducted staff functions for TSG [including, (1) administrative, (2) daily representations to the Production Management Board, (3) working level liaison contact with PPBS on budget matters, and (4) with PSG on production matters] and also carried out the following additional actions.

1. PPS completed the TSG FY-1971 Operating Budget Review and FY-1972 Office Estimates. This project included review and consolidation of TSG Division inputs at the PPS level, presentation for review by Chief, TSG and revisions as a result of Chief, TSG review. The completed documents were presented to PPBS on schedule for review at that level. Written response, coordinated with TSG Divisions, was provided PPBS in the course of their review in preparation for presentation to the Executive Director.

25X1 2. Review TSG Division papers on the subject of readiness for the new [ ] system and prepared a consolidated status report covering the major problems for Deputy Chief, TSG in response to a request from PPBS.

25X1 3. Attended three-day conference at [ ] [ ] 1-3 June. Recommendations of the conference were turned over to the Chief, TSG.

4. Began the groundwork for the 8th consecutive edition of the NPIC Equipment Summary. IEG and PSG will contribute items to the publication.

5. Coordinated a number of briefings and tours which included IEG and AID employees, and helped arrange for more than 70 TSG personnel to receive orientation in IEG.

6. Prepared documentation and coordinated activities for the TSG Career Panel; the second and third Panel meetings were held on 6 June and 15 June.

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SUBJECT: Projects & Programs Staff Monthly Report - June 1970

B. During July, the following significant actions are anticipated.

1. Prepare for and conduct EXRAND meeting for July.
2. Coordinate the PPBS/Exec. Off review of the FY-1971 Operating Budget and the FY-1972 Office Estimates.
3. Arrange TSG briefings and tours for IEG and AID employees, as well as a special tour for the new Chief, Support Staff.
4. Arrange through [ ] RED, to include the DoD distribution of the NPIC Equipment Summary on the EXRAND Agenda for 15 July 1970. EXRAND members will be requested to submit final changes to the 1969 distribution list at the 19 August 1970 EXRAND meeting.

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Acting Chief,  
Projects & Programs Staff, TSG, NPIC

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Distribution:

- Original - Addressee
- 2 - NPIC/TSG/PPS
- 1 - NPIC/TSG/APSD
- 1 - NPIC/TSG/ESD
- 1 - NPIC/TSG/RED

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ATTACHMENT to:

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8 July 1970

MEMORANDUM FOR: Chief, Projects & Programs Staff,  
TSG/NPIC

SUBJECT: APSD Activity Report for June 1970

1. The following items of significant interest occurred in the APSD during June 1970:

A. Administrative

(1) [ ] a former APSD summer intern from the Rochester Institute of Technology, became a permanent division employee this month. [ ] both from RIT are summer interns working in the division this summer.

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(2) [ ] has completed his course work for a Master's Degree in Photo Science from the RIT and is now back on-board.

(3) [ ] received a \$650 interim cash award for a money-saving suggestion accepted by the Suggestion Awards Committee.

(4) The division coordinated and provided guidance on a two-day tour of the [ ] Co. and Westover AFB for IEG group, division, and staff administrative personnel, 25 and 26 June.

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(5) Papers on APSD [ ] preparedness have been forwarded to the Chief, TSG.

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B. Exploitation Support

(1) Interpretation

(a) Portions of seven passes from [ ] and portions of nine passes [ ] were selected by the [ ]

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SUBJECT: APSD Activity Report for June 1970

Tiger Team to be special printed on film type SO-369. These were delivered to IEG/OD/PCB and CIA/IAS with the first priority shipment. [redacted] Chief, MSD/IEB, mentioned at a Director's briefing that the special prints have provided additional information over the standard reproductions.

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(b) [redacted] briefed the Director, NPIC, the IEG division chiefs and the IAS Special Assistant on the presence of anomalous plus density spots detected on the original negative of [redacted]. This information was well received since it short-stopped possible erroneous interpretations/readouts.

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(2) Photogrammetric Statistics and Investigations

(a) The recommendations resulting from the statistical analysis of pointing errors are:

1. The assessments of image quality should be used for determining the expected pointing error.

2. The exact criteria for making assessments of image quality remains an area for further investigation.

(b) The error propagation routine incorporated in [redacted] (excluding pointing error) is approaching its theoretical limits, where 95% of the predicted errors should be correct.

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(c) Tasks 2 and 3 of the Precise Measurement Study were completed and in the documentation cycle:

1. Task 2, Ground Truth Data Bank

2. Task 3, Error Investigation

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SUBJECT: APSD Activity Report for June 1970

(d) The mating of the error propagation routine to the constraints model has been completed.

(3) Densitometric Statistics and Investigations

(a) The micro-d traces for the TSG/RED project #451808 Special Imagery were completed.

(b) The request for the tri-color micro-d traces of SO-242 film was completed for a contractor.

(c) Traces of SO-360 color step wedges were provided to [ ] RED, in support of a [ ] contract.

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(d) [ ] delivered the new (MIT) fast fourier transform subroutine (Four 2), which is now integrated with the DAS 2D transform program 19 June 70 (saves 12K8 computer storage).

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(e) A discussion was held on 18 June with [ ] of [ ] about possible trace requirements of ships on [ ]. One test trace was made for their home base decision process.

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C. Collection System Support

(1) Systems/Films Under Development

(a) Work on the evaluation of Special Printing Techniques (project #610136) continues in both the research and mission applied phases. Numerous samples have been selected and the originals are in-route to [ ] for printing. Army/SPAD has requested a briefing on the two film types involved (SO-369 and 6451) so that they might be made aware of the materials special advantages and be in a position to request special

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ATTACHMENT to:

[REDACTED]

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SUBJECT: APSD Activity Report for June 1970

prints from their supplier. This briefing will be given early in July.

(b) Plans are being formulated for optical titling of [REDACTED] material. An in-house program is being written to extract the data from the MCD and transmit instructions for the titler at [REDACTED]

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(c) A comparison between three [REDACTED] and three [REDACTED] missions was conducted. The results indicate that the [REDACTED] was generally better.

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(d) The division received a request from the NRO, [REDACTED] to furnish him with several viewgraphs on the "E" system. From the negatives furnished, the OAB was able to comply with the request in short order allowing [REDACTED] to meet his 12 June deadline.

(e) Special reproductions of the MIP chip frames are being produced at the request of [REDACTED] for use in power spectrum and other R&D image quality programs.

(f) Techniques for providing high quality color reproductions were developed and presented to the CTF. Additional samples have been requested by OSP.

## (2) Operational Activities

(a) In response to a request from COMIREX through EXSUBCOM and NPIC/PPBS, [REDACTED] submitted detailed suggestions for the procedural implementation of his approved suggestion for eliminating unwarranted reproductions of [REDACTED] mission products. Proposed procedures require arbitrary determinations on the suitability of reproduction, first by the 67th PTS for the PACOM and, secondly, by NPIC (IEG) for the stateside Community.

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SUBJECT: APSD Activity Report for June 1970

(b) In liaison with organizations concerned with the employment for the first time of a new collection system, the division undertook to coordinate the NPIC exploitation responsibility. [ ] met with IEG, briefed key personnel insofar as permissible in view of the sensitivity of the project, and ensured sufficient data was available to plan for the product arrival and its exploitation. He prepared a cable addressee header for readout dissemination, clarifying classification and control considerations. He also coordinated and issued the necessary reproduction guidance to the processing site. Cable traffic was monitored throughout and all traffic of an operational nature was withheld from distribution except where a positive need-to-know basis existed. Concerned officials have been kept advised.

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(c) One [ ] was evaluated during the month. The quality of the imagery provided by this mission was slightly above average for the system.

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(d) One [ ] was evaluated. This was the only operational sortie this month.

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(e) Reproduction assistance on three satellite reports control manuals was requested by the NRO. Sixty copies of each manual were completed and turned over to [ ] during the month. The NRO expressed its thanks in the timely and professional work turned out by the various NPIC components who worked on these projects.

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(f) [ ] attended the Go-No Go briefing on [ ] at the OSA on 16 June.

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SUBJECT: APSD Activity Report for June 1970

(g) In response to an urgent request from OSA/DDS&T on 25 June, [ ] arranged with the Photo Lab for short-notice photo reduction of a number of charts. Special 8" X 10" prints were made for use by [ ] in a special briefing for the President.

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(h) A five-man breakdown team accomplished the initial phase handling of [ ] at the processing site on 8-12 June 1970. This mission included 2,000 feet of film type 3414 (SO-349) per main camera. 3414 is the intended replacement for 3404.

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(i) The 1110 PET meeting was held in APSD during 15 through 18 June 1970. The session had originally been scheduled for the following week but was moved ahead because of the pending rescheduling of [ ] combined with problems encountered on [ ]

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(j) A special evaluation to determine the image quality of [ ] material with and without "roll lock-up" was provided the SOC. There are no significant differences in the imagery with roll lock-up although such a procedure does affect mensuration.

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2. The following significant items are anticipated for the month of July:

A. [ ] IEG/OD/PCB, is providing a list of targets from [ ] which the breakdown team will use to determine whether special prints will be required.

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B. [ ] breakdown team will be at the processing site during 3-6 and 11-14 July 1970.

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ATTACHMENT to:

[REDACTED]

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SUBJECT: APSD Activity Report for June 1970

C. Type 1414 (the ultra thin-base SO-349 previously numbered SO-236) and five hundred and twenty-five feet of SO-242 color film are being employed on [REDACTED]

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D. [REDACTED] is scheduled for launch on 22 July. A breakdown team is tentatively scheduled to be at the processing site the week of 26 July.

E. Two men are tentatively planning to visit the West Coast facility to be present during the pre-operational launch and operational phase of [REDACTED]

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F. Informative papers will be prepared on:

- (1) Error propagation
- (2) Relative orientation
- (3) Space resection and orientation

(4) A revised draft copy of [REDACTED] manual should be completed.

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SIGNED

[REDACTED]

Chief, Applied Photo Science Division,  
TSG/NPIC

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[REDACTED]

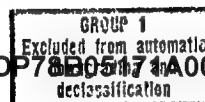
NPIC/TSG/ESD-38/70  
8 July 1970

MEMORANDUM FOR: Chief, Technical Services Group, NPIC  
THROUGH : Chief, Projects & Programs Staff, TSSG  
SUBJECT : ESD Activity Report -- June 1970

1. Noteworthy Events -- June 1970

a. Project Activity

- 1) High Precision Stereocomparator - An Acceptance Test Plan prepared by the manufacturer was received for coordination. The Test and Evaluation Branch (TEB) reviewed the document and responded with written suggestions for including detailed test procedures as required by the contract.
- 2) Digitized Measuring Light Table - This prototype is still in the T&E cycle. Another electric failure occurred just as it was about to be moved for operational suitability testing.
- 3) Wide Field Filar Eyepiece - This prototype has completed its route through TEB and three divisions for operational evaluation. The T&E report is in process.
- 4) Model 1540 Light Table Prototypes - T&E reports are in process.
- 5) Retrofit Film Transport Kit - A Test Plan has been distributed and a Test Procedures document prepared.
- 6) Light Table Brightness Survey - A final report on this project has been prepared by [REDACTED] This project consisted of 8 surveys of 50 operational light tables within IEG. This survey was the first of its type to be conducted at NPIC. The results are of sufficient value to the RED light table development program and to IEG operational procedures to warrant consideration of additional surveys of this type for other equipments. Unfortunately, both manpower and time limitations have precluded such additional activity to date.
- 7) "Green" Light Table Test - A MTM-47B table has been operating continuously at maximum intensity for 2300 hours. Its luminance has decreased from 2850 to 1700 footlamberts. No green coloration has appeared.



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8) Emergency Service - The Equipment Performance Branch received 90 requests for emergency service during June. They were divided as follows: DIA 30, PSG 29, IEG 27, TSG 2, SPAD 1, IAS 1.

9) Preventive Maintenance - A total of 426 instruments were serviced during June, divided as follows: IEG 308, DIA 99, PSG 11, SPAD 5, TSG 2, IAS 1. For comparison, the total numbers serviced last June was 71 and the number serviced last December was 220.

10) Modification, Design and Fabrication - Ten jobs performed in this category included improvements on microstereoscopes, light tables, the Photo Labs [ ] Camera, a PSG World Globe and design and fabrication of a storage rack for circuit boards for the [ ] Display System.

11) Dual Screen Measuring Projector - EPB has issued repeated warnings that the [ ] counting system on this operational item was deteriorating. During the [ ] quarterly maintenance visit this month it was found that the x-axis counting system had failed. PHD is presently awaiting a proposal from [ ] for a new measuring system.

12) Univac Communications Cabinets - The last three cabinets have been moved to the first floor computer area. Through the combined efforts of [ ] remote stations throughout [ ] remained in operation during normal duty hours.

13) Full Space Files System - On June 15, EPB personnel met with representatives of the Full Space Files System to discuss maintenance, warranty, and replacement parts. EPB will be available for assistance during a one year warranty period, and will assume full maintenance responsibility when the warranty expires.

14) Modification of Zoom 240 Pods - [ ] representative in Washington, informed his company that the IEG Zoom 240 pods that will be modified to provide image rotation are in excellent shape due to the maintenance provided by EPB. On the basis of his statement, [ ] agreed to reduce the price for modification by [ ] per pod since none of them would require refurbishing. For 231 instruments the savings realized is [ ]

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15) Dual Viewing Microstereoscopes - Three of the last five Dual-Viewing Microstereoscopes delivered by [ ] had a severe difference in color between optical trains and operator stations "A" and "B". [ ] added color correction filters to make the instruments acceptable. For details refer to Memorandum For the Record NPIC/TSSG/ESD/EPB-20-70, dated 25 June 1970.

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16) Light Table Oil Leaks - The [ ] has completed modification of liquid cooled MIM-45 and MIM-47 light tables for correction of an oil leakage problem.

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17) Optical Testing Study - A Memorandum Approval Request has been submitted for contractual assistance in preparing detailed procedures for testing direct viewing optical instruments.

b. Personnel Activity:

1) [ ] are conducting the ESD tours and briefing of AID personnel. Four groups were accommodated in June. Eight more are scheduled.

2) [ ] visited five west coast R&D contractors to review anticipated testing and maintenance problems.

3) [ ] visited the [ ] to discuss problems related to quality control of various items of equipment.

4) [ ] visited the [ ] to review test procedures and equipment used by the contractor in developing rear projection screen materials.

5) [ ] visited the [ ] to review R&D progress on dry silver processing equipment.

6) [ ] to evaluate the latest 1540 Light Table design modifications and visited [ ] for a familiarization inspection of the Automatic Target Indexing Device.

7) [ ] attended the one-week Offutt P.I. course.

8) [ ] completed her tour of duty and has departed for her next assignment.

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2. Anticipated Events -- July 1970

a. Distribution of Test and Evaluation Reports for the [ ]  
1540 Light Table prototype, the [ ] 1540 Light Table prototype and  
the [ ] Advanced Stereo Rhomboid.

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b. Distribution of the Light Table Brightness Survey Report  
compiled by [ ] is anticipated during July.

c. [ ] will attend a one week course on color technology  
at Rensselaer Polytechnic Institute.

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Chief  
Engineering Support Division, TSG

Distribution:

Orig. - Addressee  
1 - TSG/ESD/EPB  
1 - TSG/ESD/TEB

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NPIC/TSG/RED-165/70  
6 July 1970

MEMORANDUM FOR: Chief, Technical Services Group, NPIC  
ATTENTION : Chief, PPS/TSG  
SUBJECT : RED Monthly Report on Significant Events  
(June 1970)

A. Significant Items of Interest for June 1970:

1. ATR - Target Indexing Device - [ ]

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All major subsystems have been fabricated and delivered and all electronic subsystems have been checked out. The optical system has been tested and is meeting specifications. The built-in diagnostic system for troubleshooting is now operational and is actually being used by the contractor in final assembly of the device. The program is on schedule.

3. Improved Rear-Projection Screens - [ ]

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The small sample of a [ ] experimental, lenticular screen was examined and tested by RED and ESD personnel. Preliminary results indicated that the transmittance of the lenticular material is approximately 100% more than the standard, wide-angle Polacoat LS-60 screen and 30% more than the Polacoat LS-75 narrow-angle, highly-directional screen. The lenticular material, however, has some undesirable color. A follow-on program is being prepared to: (1) eliminate the color, and (2) fabricate a large lenticular screen which would be usable in the Scan & Search P.I. Station.

4. Automated Stereo Scanner - [ ]

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Technical coordination sessions between [ ] have been completed. [ ] is now performing an inventory of all the ASS equipment and preparing it for shipment to [ ] where it will be reassembled prior to performing the engineering audit. The concurrent [ ] study on "The Utility of Stereo Scanning" should begin shortly.

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NPIC/TSG/RED-165/70

5. Image Comparison Microstereoscope - ☐

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The prototype is approximately 90% complete, but the project is currently in a stop-work status. Completion will require approximately ☐ in additional funds and 5 months' time to complete. An overrun request is currently being prepared.

6. Green Oil Coolant - ☐

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Positive identification of the contaminate in the ☐ light table coolant (green oil) has not been made; further analysis is continuing. However, sufficient information has been obtained to indicate that most of the contaminants come from the silicones used in the table. Repeated analyses of the oil from the test table indicates that there is a buildup of contaminants with time and that this correlates with a definite drop in light intensity. An interim recommendation would be to drain every table after a few hundred hours of operation, then flush and refill. Periodic changing of the oil will probably remove all contaminants permanently.

7. Photoscience Support - ☐

Project activity was initiated under the Photoscience Support Program with ☐ Five work orders were authorized for these project objectives: (1) defining the chemistry of non-silver halide photographic processes; (2) application of a scanning electron microscope to photointerpretation; (3) coarse-cut analysis of contaminated green oil (from light tables); (4) investigation of a novel photoprocess; and (5) demonstration of a contrast manipulation process.

8. ☐ GRANT

The technical portion of the ☐ Grant was completed with a day-long presentation of research papers by grant-supported students and with the receipt of their final research reports. ☐ overall performance was rated "Very Good."

9. Free Radical Photoprocess - ☐

☐ has reversed a previous corporate policy against accepting government-sponsored R&D contracts and may now consent to participate in an exploratory program for developing a free radical duplicating film. This capable organization could serve as a second source to ☐, and provide additional technical perspective on free radical film technology.

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NPIC/TSG/RED-165/70

10. Contract Proposals

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- a. FY-70 contracts were approved and negotiated with [redacted] Color Training) and [redacted] Ground Order of Battle Resolution Study).
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- b. Proposals for FY-1971 research were received from, and contract approval requests were submitted for, [redacted] Consultation in Visual Perception) and for [redacted] Imagery Experimentation Support). A letter proposal was received from [redacted] (Photointerpretation Research Support) and is presently being evaluated.
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11. U.V. Radiation Briefing

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[redacted] Chief, Clinical Division, OMS, and [redacted] Agency consultant ophthalmologist/physicist, briefed TSSG administrative and engineering personnel on the physiological effects of ultraviolet radiation on the visual system. It was concluded that the quantities and the characteristics of UV radiation detected in the [redacted] high intensity light table were not cause for concern.

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12. PI Training Package

Evaluation and validation of the PI training package on Medium Tanks--developed under the FY-1970 [redacted] Imagery Interpretation Research Program--revealed a substantial improvement in target recognition and identification after training.

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13. The following R&D contracts have been negotiated:

- 25X1
- a. 10x10 Stereocomparator Contract;
- b. Filar Eyepiece for Zoom 240 Contract;
- c. [redacted] 1540 Light Tables Production Contract;
- d. 6x6 Modification Contract; and
- e. Dry Silver Enlarger/Viewer/Printer Contract.

NPIC/TSG/RED - 165/70

14. Equipment Delivered: The Remote Console for [ ] On-Line System has been delivered.

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15. Personnel - Summer Interns

a. 1 June 1970 - [ ] junior from Texas Tech (EE & Physics) joined ITL/ATB for work on the OIM project.

b. 8 June 1970 - [ ] (EE & Physics) grad student R.I. University, began his second summer with ITL/ATB. He has been assigned a microdensitometer calibration project.

c. 15 June 1970 - [ ] sophomore from VPI (Physics) joined ITL/ATB. [ ] will assist [ ] on OIM.

d. 17 June 1970 - [ ] reported for duty in the OC/RED and has been assigned technical and management problems.

e. 22 June 1970 - [ ] Georgia Tech student, reported for duty with ATB.

B. Anticipated Items of Interest for July 1970.

None.

C. See Attachment [ ] for the report of RED/RSB significant events for June 1970.

[ ]

Deputy Chief  
Research & Engineering Division,  
TSG/NPIC

Attachment:

[ ]

Distribution:

Orig. & 5 - TSSG

2 - TSSG/RED

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[redacted]  
30 June 1970

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MEMORANDUM FOR: Chief, Research &amp; Engineering Division, TSSG/NPIC

SUBJECT : Reconnaissance Systems Branch Monthly Report  
June 1970

Significant Events for the Period of June 1970:

1. Meetings were held for three days at the [redacted]  
[redacted] regarding the reorganization plans of TSSG. The final paper  
will be submitted on 1 July 1970.

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2. [redacted] visited RADC on 9-10 June 1970. He was accompanied  
by [redacted]

3. The contractual study with [redacted] on the cali-  
bration of long focal length cameras (3,000 mm) was completed.

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4. Meetings on Color Task Force (SLAR, [redacted] ARGO, VHR, COMIREX,  
etc.) were attended by representatives from RSB/RED.

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5. [redacted] visited [redacted]  
[redacted] and ACIC in St. Louis, Mo.

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6. Various meetings on the [redacted] requirements were held concern-  
ing back-up ephemeris, point-target file, format calibration, camera  
errors and associated analysis, etc. Memoranda has been written and  
distributed.

7. Aquiline project activity continued at a good pace during the  
reporting. Liaison, support, and technical advice included production  
of a large rectified photomosaic from KH material at an approximate  
scale of 1:135,000 and later five photographs of selected adjacent area  
within the mosaic at an approximate scale of 1:50,000. Contact prints  
and 10X, 20X, and 40X prints were made from O.N. test material for  
briefing purposes. Evaluation and additional footage of movie film  
was provided in connection with this project.

8. [redacted] attended the one-week long senior PI special course  
at Offutt Air Force Base, Nebraska on 8-12 June 1970.

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9. [ ] attended the first symposium on Applications of Reconnaissance Technology to Monitoring and Planning Environmental Change sponsored by and held at the Rome Air Development Center at Griffiss Air Force Base, New York on 16-19 June 1970.

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10. [ ] Deputy Chief/RSB/RED underwent abdominal surgery at the Mayo Clinic, Rochester, Minnesota on Friday, 26 June.

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[ ]  
Chief, Reconnaissance Systems Branch,  
RED/TSSG/NPIC

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